

# ABSTRACT OF THE DISCLOSURE

An aqueous nanoparticle ceramic agglomerate dispersion, for forming an ink-absorbing layer of an ink-jet recording medium, containing a nanoparticle ceramic agglomerate dispersed in deionized water. The nanoparticle ceramic agglomerate has an average diameter of 0.05 to 0.3  $\mu\text{m}$  at a viscosity suitable for coating of 10 to 200 mPa·s as measured by a laser diffraction particle size distribution measurement apparatus, and the ratio of the peak width (half width) at a height which is half the maximum height in a size distribution curve of the nanoparticle ceramic agglomerate, determined according to the results of the measurement, to the maximum height is 0.7 or less. This aqueous ceramic dispersion provides an ink-jet recording medium which enables the printing of sharp and clear images.

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